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EUROPEAN PATENT APPLICATION

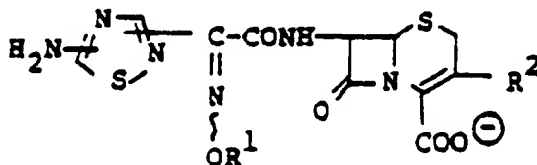
Ⓢ Int. Cl.⁵: **A61K 31/545, C07D 501/46**

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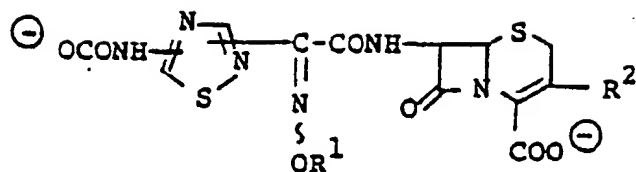
(54) Water-soluble antibiotic composition and water-soluble salts of new cephem compounds.

57) A water-soluble antibiotic composition which comprises crystals of a cephem compound of the following formula:



wherein R¹ is a residue of an aliphatic hydrocarbon which may have suitable substituent(s), and R² is a heteronio(lower)alkyl, or an acid addition salt thereof, and a pharmaceutically acceptable carbonic acid salt. The invention also relates to a salt comprising cation(s) and anion of the formula:

EP 0 303 223 A3



wherein R¹ is a residue of an aliphatic hydrocarbon which may have suitable substituent(s),
 R² is a heteronio(lower) alkyl, a process for preparing such salt and pharmaceutical composition comprising it.

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EUROPEAN SEARCH REPORT

Application Number

EP 88 11 2910

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	FR-A-2 445 833 (SOCIETE CHIMIE ET BIOLOGIE) * Complete specification *	10-19	A 61 K 31/545 C 07 D 501/46
A	FR-A-2 124 499 (SQUIBB) * Complete specification *	1-9	
A	US-A-4 241 057 (KENZO ISHIZUKA et al.) * Complete specification *	1-9	
A	EP-A-0 099 553 (FUJISAWA) * Claims *	10-19	
A	US-A-4 161 527 (KENZO ISHIZUKA) * Complete specification *	1-9	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			A 61 K 31/545 C 07 D 501/46
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-09-1990	Examiner LUYTEN H.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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